temporary valve being operative to effect greater antegrade flow than retrograde flow through said vessel; and

- b) placing at least one temporary filter in said flowpath downstream from said cardiac valve, said filter being operative to restrict the passage of emboli while allowing blood to flow through said vessel.
- 40. A method for performing an operation on a cardiac valve of a heart while the heart is beating, comprising the steps of:
- a) positioning at least one temporary valve in a flow path of a blood vessel downstream from said cardiac valve, said temporary valve being operative to effect greater antegrade flow than retrograde flow through said vessel;
- b) resecting or disrupting at least a portion of the cardiac valve; and
- c) affixing at least one prosthetic valve at, upstream or downstream from said resected cardiac valve.

- 41. A device for performing intravascular or intracardiac procedures wherein at least a portion of the device is adapted for placement in a flowpath of a blood vessel, said portion comprising:
 - a) a valve means that acts to allow greater antegrade flow than retrograde flow through said vessel; and
 - b) a filter operative to restrict the passage of emboli while allowing blood flow through said vessel.
 - 42. A device for performing intravascular or intracardiac procedures wherein at least a portion of said device is adapted for placement in the flowpath of blood, said portion comprising:

a valve means that acts to allow greater antegrade flow than retrograde flow.

43. A valve fixation device for affixing a nonflexible prosthetic valve to the interior wall of a
vessel, said prosthetic valve having a generally
cylindrical shape with a base, an apex, an interior
surface and an exterior surface, said prosthetic valve
further having a long axis passing through the centers

of the circles formed by at least two circumferences of said cylindrical shape along the distance between said apex and said base, said fixation device comprising:

- a) at least two expandable mounting rings, said rings being expandable from a first compressed state having a relatively small maximum transverse dimension to a second expanded state having a relatively large maximum transverse dimension, said rings expandable in a direction perpendicular to the long axis of said prosthetic valve, each of said rings being affixed to said prosthetic valve near a respective end thereof.
 - 44. A valve fixation device for affixing a nonflexible prosthetic valve to the interior wall of a
 vessel, said prosthetic valve having a generally
 cylindrical shape with a base, an apex, an interior
 surface and an exterior surface, said prosthetic valve
 further having a long axis passing through the centers
 of the circles formed by at least two circumferences of
 said cylindrical shape along the distance between said
 apex and said base, said fixation device comprising:
 - a) at least one expandable mounting ring, said ring being expandable from a first compressed state

having a relatively small maximum transverse dimension to a second expanded state having a relatively large maximum transverse dimension, said ring expandable in a direction perpendicular to the long axis of said prosthetic valve, each of said ring being affixed to said prosthetic valve near a respective end thereof.

- 45. A valve fixation device for affixing a flexible prosthetic valve to the interior wall of a vessel, said prosthetic valve having a generally cylindrical shape with a base, an apex, an interior surface and an exterior surface, said prosthetic valve further having a long axis passing through the centers of the circles formed by at least two circumferences of said cylindrical shape along the distance between said apex and said base, said fixation device comprising:
 - a) at least one expandable mounting ring, said ring being expandable from a first compressed state having a relatively small maximum transverse dimension to a second expanded state having a relatively large maximum transverse dimension, said ring expandable in a direction perpendicular to the long axis of said

prosthetic valve, each of said ring being affixed to said prosthetic valve near a respective end thereof.

- 46. A method of repairing and replacing a stenosed cardiac valve comprising the steps of:
- a) during cardiac rhythm, disrupting said cardiac valve, without completely removing said cardiac valve such that said cardiac valve no longer functions as a valve, thereby decreasing pressure drop across said cardiac valve; and
- b) implanting a prosthetic valve downstream,upstream or at said cardiac valve.
- 47. A method of repairing and replacing a stenosed cardiac valve comprising the steps of:
- a) during cardiac rhythm, disrupting said cardiac valve, without completely removing said cardiac valve such that said cardiac valve no longer functions as a valve, thereby substantially equalizing the pressure gradient across said cardiac valve; and
- b) implanting a prosthetic valve downstream,upstream or at said cardiac valve.

- 48. A method for enabling performance of an operation on a cardiac valve of a heart while the heart is beating, comprising the steps of:
- a) placing at least one temporary valve in a flow path of blood vessel, said temporary valve being operative to effect greater antegrade flow than retrograde flow through said vessel; and
- b) placing at least one temporary filter in said flowpath downstream from said cardiac valve, said filter being operative to restrict the passage of emboli while allowing blood to flow through said vessel.
- 49. A method for performing an operation on a cardiac valve of a heart while the heart is beating, comprising the steps of:
- a) positioning at least one temporary valve in a flow path of blood, said temporary valve being operative to effect greater antegrade flow than retrograde flow;
- b) resecting or disrupting at least a portion of the cardiac valve; and